

# Comparisons of Job Characteristics

**Focus Occupation:** Marine Engineers and Naval Architects (17-2121)

**Associated Occupation:** Ship Engineers (53-5031)

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<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 62

**Focus Occupation:** Marine Engineers and Naval Architects (17-2121)

**Associated Occupation:** Ship Engineers (53-5031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	21.4	14.9	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	15.3	7.0	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	13.9	21.2	>>	Current knowledge level is likely more than sufficient
Transportation	4.6	12.4	8.4	<<	Extensive education and/or training may be required
Law and Government	5.9	11.6	6.4	<<	Extensive education and/or training may be required
Design	5.2	10.8	17.6	>>	Current knowledge level is likely more than sufficient
Telecommunications	3.9	7.0	5.2	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 2

**Focus Occupation:** Marine Engineers and Naval Architects (17-2121)

**Associated Occupation:** Ship Engineers (53-5031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Equipment Maintenance	3.5	11.6	1.6	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	11.6	7.8	<<	Extensive development of skills in this area may be required

Operation Monitoring	6.6	11.5	8.7	<<	Extensive development of skills in this area may be required
Repairing	3.4	10.8	2.1	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	10.6	9.6	<	A higher skill level may be required
Operation and Control	5.4	10.3	3.7	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	8.2	2.2	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 69			
Focus Occupation: Marine Engineers and Naval Architects (17-2121) Associated Occupation: Ship Engineers (53-5031)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	11.5	3.1	<<	Extensive improvement in abilities may be required
Selective Attention	8.7	11.0	9.1	<	Some improvement in abilities may be required
Visualization	7.5	10.7	13.6	>>	Current ability level is likely more than sufficient
Extent Flexibility	4.8	9.5	4.3	<<	Extensive improvement in abilities may be required
Auditory Attention	5.9	9.2	5.9	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	8.6	6.3	<<	Extensive improvement in abilities may be required
Rate Control	3.8	7.9	2.4	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	6.1	4.0	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 85
Focus Occupation: Marine Engineers and Naval Architects (17-2121) Associated Occupation: Ship Engineers (53-5031)		
Work Activities	Exclusivity of Activity	
Assemble, dismantle, or reassemble equipment or machinery	70	
Direct and coordinate activities of workers or staff	3	
Erect machinery in marine or maritime setting	95	
Maintain records, reports, or files	5	

Perform safety inspections in transportation setting	62
Read blueprints	10
Read technical drawings	7
Select ship repair method	95

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Marine Engineers and Naval Architects (17-2121)**  
**Associated Occupation: Ship Engineers (53-5031)**

### Tools and Technologies

### Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.